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This Document Contains
5 Photographs and
4 typed pages.

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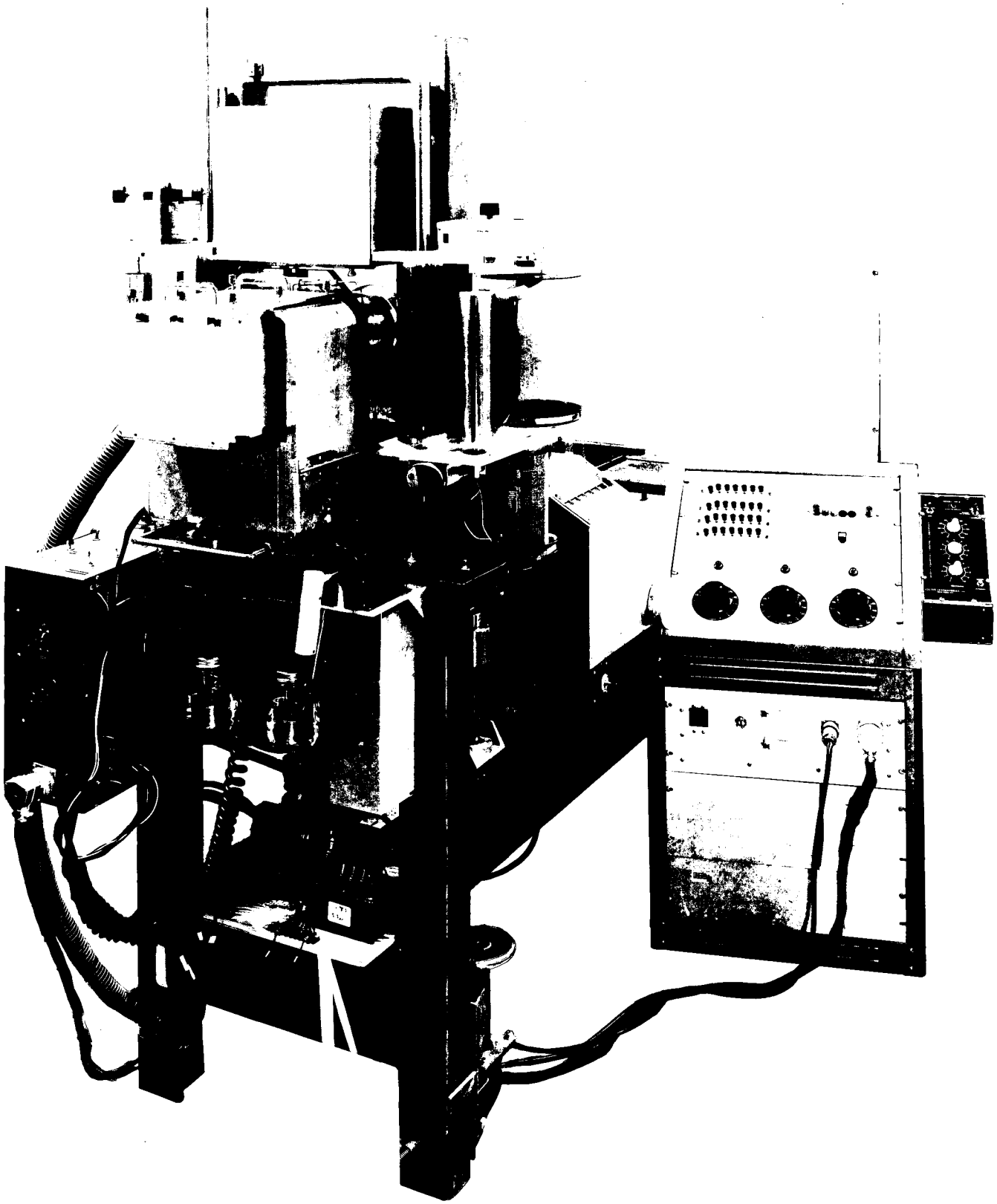

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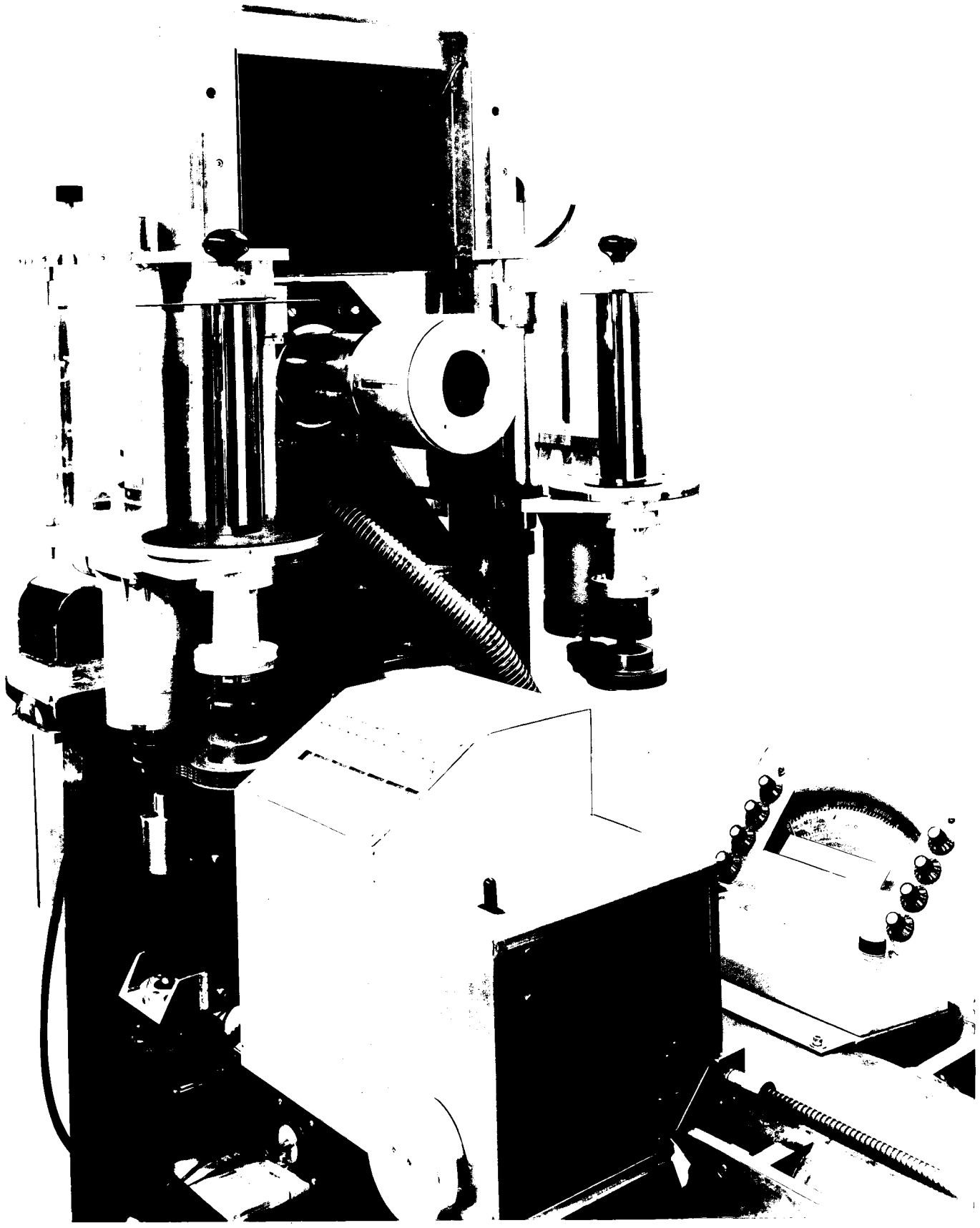

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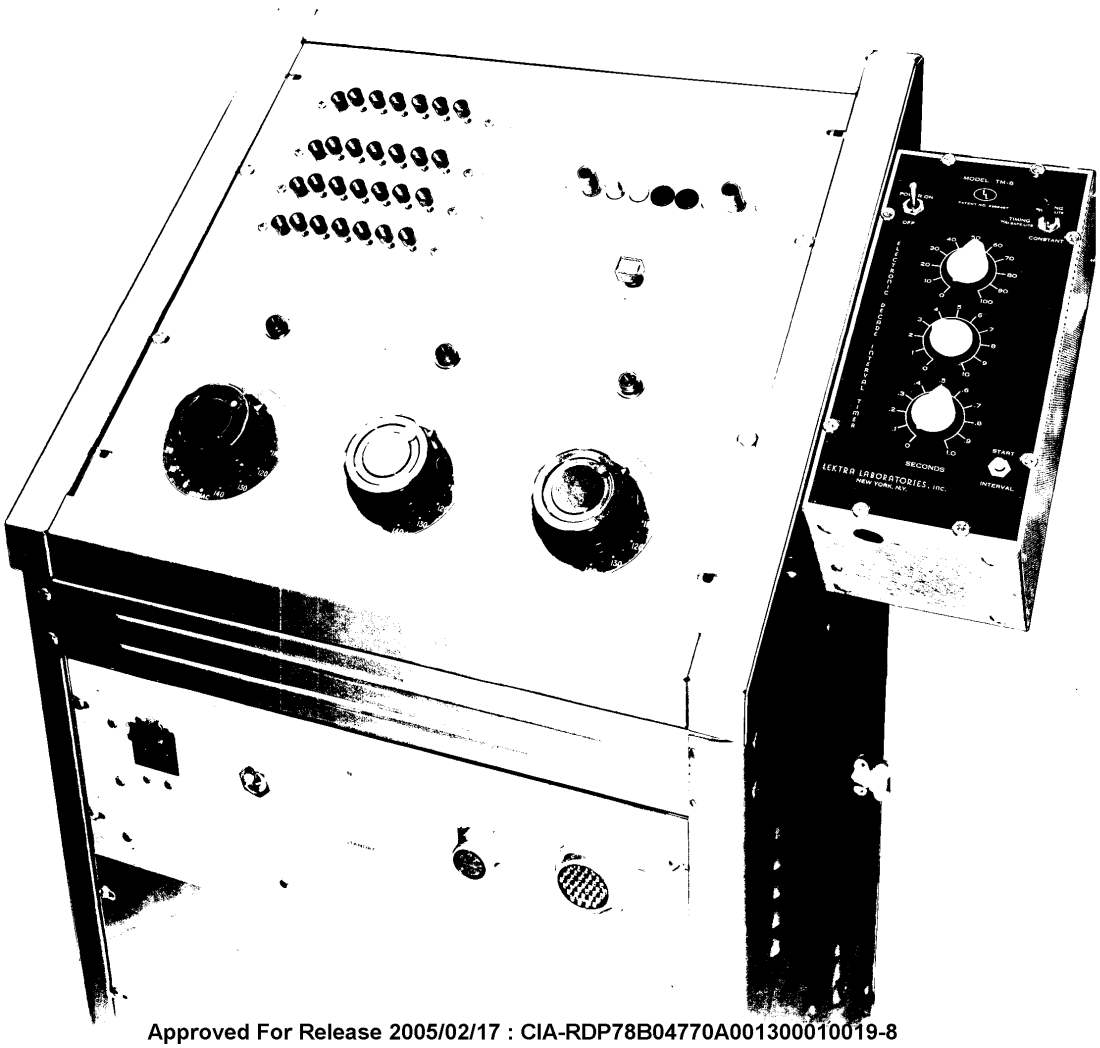

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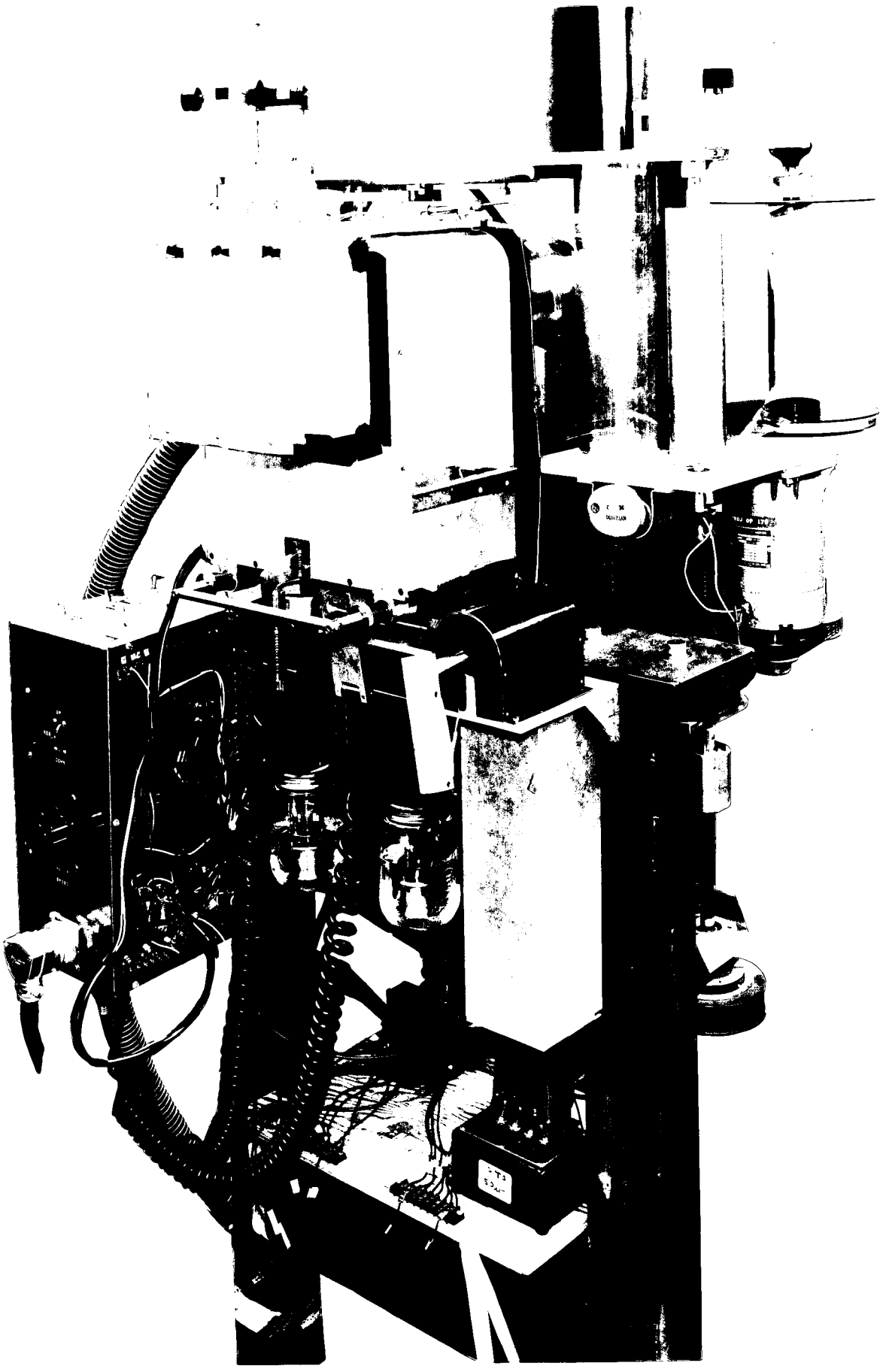

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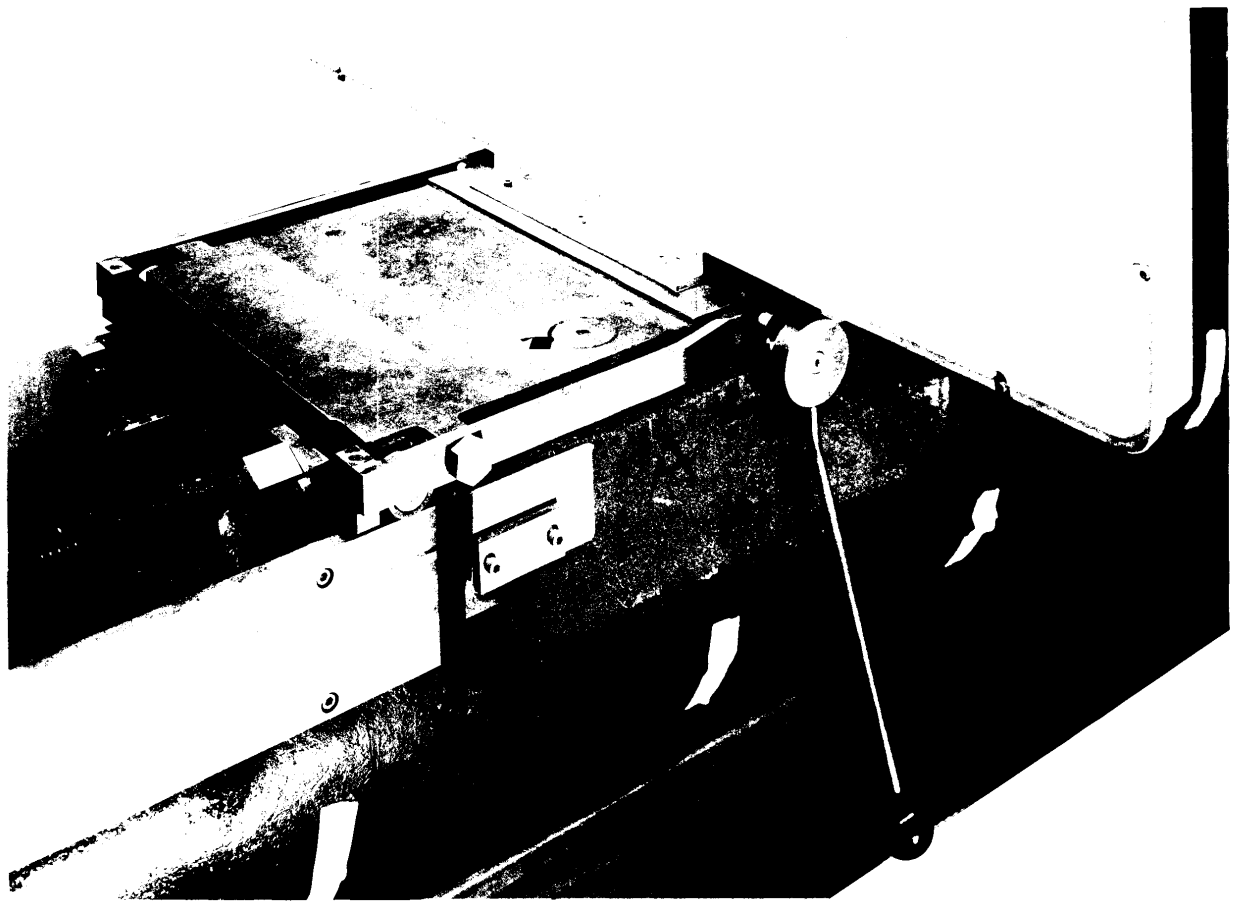

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Field Coverage, BPE Breadboard

Lens	OAC	M	Field Coverage Negative Dia.	Negative Square	Print Diagonal
10.75"	57.°	2.95X	3.9"	2.76"	11.6"
	65.	3.77		(70.0mm)	14.7
	80.	5.24			20.4"
7.17	50.0	4.75	3.8	2.72"	18.
	62.	6.48		.69. mm)	24.6
	80.	9.04			34.3
4.85	50.0	8.46	3.8	2.72"	32.3
	62.	10.97		(69. mm)	41.7
	80.	14.71			55.8
3.06	50.0	14.53	2.15	1.52"	31.2
	62.	18.47		(38.6mm)	39.7
	80.	24.36			52.3
1.93	50.0	24.10	1.29	0.91"	31.2
	62.	30.32		(23.1mm)	39.26
	80.	39.64			51.3
1.26	50.0	37.73	0.82	0.58"	31.2
	62.	47.23		(14.7mm)	39.1
	80.	61.48			50.8

Diagonal Length for Various Standard Sheet Sizes

Sheet	Diag.	Sheet	Diag.
8" x 10"	12.8"	16" x 20"	25.6"
10" x 12"	15.6"	20" x 24"	31.2"
11" x 14"	17.7"	30" x 40"	50.0"
14" x 17"	22.0"	40" x 40"	56.5"

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BPE B & W Lenses (W98 Filter - Blue)

EF (In.)	f/No.	Magnification OAC (In.)	Magnification M (Diam.)	Diffraction Lim. Neg. (l/mm)	Diffraction Lim. Print (l/mm)	Observed Resolution Chart	Observed Resolution Neg. (l/mm)	Observed Resolution Print (l/mm)
10.75(1)	f/17.8	57."	2.95	93	31.5			30.
		65.	3.77	98	26.	6/2	89	23.
		80.	5.24	105	20.			17.
7.17(1)	f/12.	50.	4.75	153	32.			26.
		62.	6.48	160	25.	6/5	127	19.
		80.	9.04	167	18.5			14.
4.85(1)	f/7.8	50.	8.46	254	30.			26.
		62.	10.97	260	23.6	7/4	226	20.
		80.	14.71	266	18.			15.
3.06(1)	f/5.	50.	14.53	415	28.5			25.
		62.	18.47	422	23.	8/2	360	19.
		80.	24.36	427	17.			14.
1.93(2)	f/4.2	50.	24.10	505	21.			18.
		62.	30.32	510	16.8	8/4	452	15.
		80.	39.64	513	13.			11.4
1.26(2)	f/2.8	50.	37.73	782	21.			17.
		62.	47.23	782	16.6	9/1	640	13.5
		80.	61.46	782	13			10.4

(1) Aperture Stop Diameter 0.6"

(2) Aperture Stop Diameter 0.45"

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lines/mm

80 - 800 Resolution Charts

	6	7	8	9
1.	80	160	320	640
2.	90	180	360	718
3.	101	202	403	806
4.	113	226	452	
5.	127	254	508	
6.	142	285	570	

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